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Document Number 13

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File: JPAB

May 15, 1998

PUB-NO: JP410126819A

DOCUMENT-IDENTIFIER: JP 10126819 A

TITLE: COMMUNICATION LINK FOR MANY USERS

PUBN-DATE: May 15, 1998

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TEXAS INSTR INC N/A

APPL-NO: JP09279296

APPL-DATE: September 4, 1997

INT-CL (IPC): H04Q 3/42; H04L 27/00; H04M 3/00; H04M 11/00

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a new fast modem which is used to the standard telephone twist paired circuits by preparing a digital communication link which connects a digital processing unit to plural analog front ends and plural analog communication links and then connecting a single analog communication link to one of users from one of analog front ends.

SOLUTION: A modem 100 includes a voice band path led to a single subscriber circuit (twisted paired circuits) 140 and a DSL band data bus, and the circuit 140 is connected to the central office of a telephone company. An analog front end 110 of a voice band performs the transmitting/receiving operations at the frequency of the voice band, and an analog front end 120 of a digital subscriber circuit performs the transmitting/receiving operations at the frequency higher than the voice band. A splitter 130 which is connected to the circuit 140 splits the incoming signals into the components of the voice band and the components of frequency higher than the voice band. At the voice band, the normal telephone service is performed and the telephone sets can be connected to the circuit 140.

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